

WHAT IS CLAIMED IS:

Sub B 7
1 2. A display control system for data control during
2 screen display operations, the system comprising:
3 a pointing device that indicates a position on a screen
4 of a display unit; and
5 a deleting unit that successively deletes first elements
6 of data from a specified area of the screen and rearranges
7 second elements of data remaining in the specified area to
8 provide an appearance that the second elements of data are
9 gradually withdrawn from the specified area at the indicated
10 position,

11 said deleting unit including a first density control unit
12 that, in accordance with successively deleting the first
13 elements of data, reduces a density of a second element of
14 data remaining in the specified area by decreasing a component
15 of the second element of data, while said second elements of
16 data are being rearranged.

1 2. The display control system as claimed in claim 1,
2 further comprising:

3 a completion indicating unit that displays a
4 predetermined image at a specified position on the screen when
5 all the second elements of data have been deleted as first
6 elements of data.

1 3. A display control system for data control during
2 screen display operations, said system comprising:
3 a pointing device that indicates a position on a screen
4 of a display unit; and
5 a deleting unit that successively deletes first elements
6 of data from a specified area of the screen and rearranges
7 second elements of data remaining in the specified area to
8 provide an appearance that the second elements of data are

9 gradually withdrawn from the specified area at the indicated position,
10 said deleting unit including a first speed control unit
11 that controls respective time intervals to be successively
12 shorter during which the first elements are successively
13 deleted.

1 4. The display control system as claimed in claim 3,
2 further comprising:

3 a completion indicating unit that displays a
4 predetermined image at a specified position on the screen when
5 all the second elements of data have been deleted as first
6 elements of data.

1 5. A computer-readable medium encoded with a program for
2 controlling data display operations, said program comprising
3 the functions of:

4 detecting a position on a screen of a display unit, the
5 position being indicated by a pointing operation;

6 successively deleting first elements of data from a
7 specified area of the screen, and rearranging second elements
8 of data remaining in the specified area, to provide an
9 appearance that the second elements of data are gradually
10 withdrawn from the specified area at the indicated position;
11 and

12 reducing, in accordance with successively deleting the
13 first elements of data, the density of a second element of
14 data remaining in the specified area by decreasing a component
15 of the second element of data, while said second elements of
16 data are being rearranged.

1 6. The computer-readable medium as claimed in claim 5,
2 wherein said program further comprises the function of
3 displaying a predetermined image at a specified position on
4 the screen when all the second elements of data have been
5 deleted as first elements of data.

1 7. A computer-readable medium encoded with a program for
2 controlling data display operations, said program comprising
3 the functions of:

4 detecting a position on a screen of a display unit, the
5 position being indicated by a pointing operation;

6 successively deleting first elements of data from a
7 specified area of the screen, and rearranging second elements
8 of data remaining in the specified area, to provide an
9 appearance that the second elements of data are gradually
10 withdrawn from the specified area at the indicated position;
11 and

12 controlling respective time intervals to be successively
13 shorter during which the first elements of data are
14 successively deleted.

1 8. The computer-readable medium as claimed in claim 7,
2 wherein said program further comprises the function of
3 displaying a predetermined image at a specified position on
4 the screen when all the second elements of data have been
5 deleted as first elements of data.

1 9. A data processing apparatus using a computer
2 specifically configured by execution of a program encoded on a
3 computer-readable medium, the program controlling data display
4 operations and including the functions of:

5 detecting a position on a screen of a display unit, the
6 position being indicated by a pointing operation;

7 successively deleting first elements of data from a
8 specified area of the screen, and rearranging second elements
9 of data remaining in the specified area, to provide an
10 appearance that the second elements of data are gradually
11 withdrawn from the specified area at the indicated position;
12 and

13 reducing, in accordance with successively deleting the
14 first elements of data, the density of a second element of
15 data remaining in the specified area by decreasing a component

16 of the second element of data, while said second elements of
17 data are being rearranged.

1 10. The data processing apparatus as claimed in claim 9,
2 wherein the program further comprises the function of
3 displaying a predetermined image at a specified position on
4 the screen when all the second elements of data have been
5 deleted as first elements of data.

1 11. A data processing apparatus using a computer
2 specifically configured by execution of a program encoded on a
3 computer-readable medium, the program controlling data display
4 operations and including the functions of:

5 detecting a position on a screen of a display unit, the
6 position being indicated by a pointing operation;

7 successively deleting first elements of data from a
8 specified area of the screen, and rearranging second elements
9 of data remaining in the specified area, to provide an
10 appearance that the second elements of data are gradually
11 withdrawn from the specified area at the indicated position;
12 and

13 controlling respective time intervals to be successively
14 shorter during which the first elements of data are
15 successively deleted.

1 12. The data processing apparatus as claimed in claim
2 11, wherein the program further comprises the function of
3 displaying a predetermined image at a specified position on
4 the screen when all the second elements of data have been
5 deleted as first elements of data.

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2 13. A display controller for data control during screen
3 display operations, the controller comprising:

4 a deleting unit that successively deletes first elements
5 of data from a specified area of a display screen and
6 rearranges second elements of data remaining in the specified

7 area to provide an appearance that the second elements of data
8 are gradually withdrawn from the specified area at a position
9 indicated by a pointing device,

10 said deleting unit including a first density control unit
11 that, in accordance with successively deleting the first
12 elements of data, reduces a density of a second element of
13 data remaining in the specified area by decreasing a component
14 of the second element of data, while said second elements of
15 data are being rearranged.

1 14. The display controller as claimed in claim 13,
2 further comprising:

3 a completion indicating unit that displays a
4 predetermined image at a specified position on the screen when
5 all the second elements of data have been deleted as first
6 elements of data.

1 15. A display controller for data control during screen
2 display operations, the controller comprising:

3 a deleting unit that successively deletes first elements
4 of data from a specified area of a display screen and
5 rearranges second elements of data remaining in the specified
6 area to provide an appearance that the second elements of data
7 are gradually withdrawn from the specified area at a position
8 indicated by a pointing device,

9 said deleting unit including a first speed control unit
10 that controls respective time intervals to be successively
11 shorter during which the first elements are successively
12 deleted.

1 16. The display controller as claimed in claim 15,
2 further comprising:

3 a completion indicating unit that displays a
4 predetermined image at a specified position on the screen when
5 all the second elements of data have been deleted as first
6 elements of data.

1 17. A display controller for data control during screen
2 display operations, said controller comprising:

3 a deleting unit that successively deletes first elements
4 of data from a screen of a display unit; and

5 a density control unit that, in accordance with
6 successively deleting the first elements of data, reduces a
7 density of a second element of data remaining on the screen by
8 decreasing a component of the second element of data.

1 18. A display controller for data control during screen
2 display operations, said controller comprising:

3 a deleting unit that successively deletes elements of
4 data from a screen of a display unit; and

5 a speed control unit that controls respective time
6 intervals to be successively shorter during which the elements
7 of data are successively deleted.

9 19. A display controller for data control during screen
10 display operations, said controller comprising:

11 a restoring unit that successively restores first
12 elements of data to a screen of a display unit; and

13 a density control unit that, in accordance with
14 successively restoring the first elements of data, increases a
15 density of a second element of data previously restored to the
16 screen by increasing a component of the second element of
17 data.

1 20. A display controller for data control during screen
2 display operations, said controller comprising:

3 a restoring unit that successively restores elements of
4 data to a screen of a display unit; and

5 a speed control unit that controls respective time
6 intervals to be successively longer during which the elements
7 of data successively restored to the screen.

1 21. A computer-readable medium encoded with a program
2 for controlling data display operations, said program
3 comprising the functions of:

4 successively deleting first elements of data from a
5 screen of a display unit; and

6 reducing, in accordance with successively deleting the
7 first elements of data, a density of a second element of data
8 remaining on the screen by decreasing a component of the
9 second element of data.

1 22. A computer-readable medium encoded with a program
2 for controlling data display operations, said program
3 comprising the functions of:

4 successively deleting elements of data from a screen of a
5 display unit; and

6 controlling respective time intervals to be successively
7 shorter during which the elements of data are successively
8 deleted.

1 23. A computer-readable medium encoded with a program
2 for controlling data display operations, said program
3 comprising the functions of:

4 successively restoring first elements of data to a screen
5 of a display unit; and

6 increasing, in accordance with successively restoring the
7 first elements of data, a density of a second element of data
8 previously restored to the screen by increasing a component of
9 the second element of data.

1 24. A computer-readable medium encoded with a program
2 for controlling data display operations, said program
3 comprising the functions of:

4 successively restoring elements of data to a screen of a
5 display unit; and

controlling respective time intervals to be successively longer during which the elements of data are successively restored to the screen.

25. A display controller for data control during screen display operations, said controller comprising:

a deleting unit that successively deletes first elements of data from a screen of a display unit; and

a density control unit that, in accordance with successively deleting the first elements of data, varies a density of a second element of data remaining on the screen by decreasing a component of the second element of data.

26. A display controller for data control during screen display operations, said controller comprising:

a deleting unit that successively deletes elements of data from a screen of a display unit; and

a speed control unit that controls respective time intervals to be successively varied during which the elements of data are successively deleted.

27. A display controller for data control during screen display operations, said controller comprising:

a restoring unit that successively restores first elements of data to a screen of a display unit; and

a density control unit that, in accordance with successively restoring the first elements of data, varies a density of a second element of data previously restored to the screen by increasing a component of the second element of data, while said second elements of data are being rearranged.

28. A display controller for data control during screen display operations, said controller comprising:

a restoring unit that successively restores elements of data to a screen of a display unit; and

5 a speed control unit that controls respective time
6 intervals to be successively varied during which the elements
7 of data are successively restored to the screen.

1 29. A computer-readable medium encoded with a program
2 for controlling data display operations, said program
3 comprising the functions of:

4 successively deleting first elements of data from a
5 screen of a display unit; and

6 varying, in accordance with successively deleting the
7 first elements of data, a density of a second element of data
8 remaining on the screen by varying a component of the second
9 element of data.

10 30. A computer-readable medium encoded with a program for
11 controlling data display operations, said program comprising
12 the functions of:

13 successively deleting elements of data from a screen of a
14 display unit; and

15 controlling respective time intervals to be successively
16 varied during which the elements of data are successively
17 deleted.

1 31. A computer-readable medium encoded with a program
2 for controlling data display operations, said program
3 comprising the functions of:

4 successively restoring first elements of data to a screen
5 of a display unit; and

6 varying, in accordance with successively restoring the
7 first elements of data, a density of a second element of data
8 previously restored to the screen by varying a component of
9 the second element of data.

1 32. A computer-readable medium encoded with a program
2 for controlling data display operations, said program
3 comprising the functions of:

4 successively restoring elements of data to a screen of a
5 display unit; and

6 controlling respective time intervals to be successively
7 varied during which the elements of data are successively
8 restored to the screen.

1 33. A method for controlling data display operations,
2 the method comprising:

3 detecting a position on a screen of a display unit, the
4 position being indicated by a pointing operation;

5 successively deleting first elements of data from a
6 specified area of the screen, and rearranging second elements
7 of data remaining in the specified area, to provide an
8 appearance that the second elements of data are gradually
9 withdrawn from the specified area at the indicated position;
10 and

11 reducing, in accordance with successively deleting the
12 first elements of data, the density of a second element of
13 data remaining in the specified area by decreasing a component
14 of the second element of data, while said second elements of
15 data are being rearranged.

1 34. The method as claimed in claim 33, further
2 comprising displaying a predetermined image at a specified
3 position on the screen when all the second elements of data
4 have been deleted as first elements of data.

1 35. A method for controlling data display operations,
2 the method comprising:

3 detecting a position on a screen of a display unit, the
4 position being indicated by a pointing operation;

5 successively deleting first elements of data from a
6 specified area of the screen, and rearranging second elements
7 of data remaining in the specified area, to provide an
8 appearance that the second elements of data are gradually

9 withdrawn from the specified area at the indicated position;
10 and
11 controlling respective time intervals to be successively
12 shorter during which the first elements of data are
13 successively deleted.

1 36. The method as claimed in claim 35, further
2 comprising displaying a predetermined image at a specified
3 position on the screen when all the second elements of data
4 have been deleted as first elements of data.

1 37. A method for controlling data display operations,
2 the method comprising:

3 successively deleting first elements of data from a
4 screen of a display unit; and

5 reducing, in accordance with successively deleting the
6 first elements of data, a density of a second element of data
7 remaining on the screen by decreasing a component of the
8 second element of data.

1 38. A method for controlling data display operations,
2 the method comprising:

3 successively deleting elements of data from a screen of a
4 display unit; and

5 controlling respective time intervals to be successively
6 shorter during which the elements of data are successively
7 deleted.

1 39. A method for controlling data display operations,
2 the method comprising:

3 successively restoring first elements of data to a screen
4 of a display unit; and

5 increasing, in accordance with successively restoring the
6 first elements of data, a density of a second element of data
7 previously restored to the screen by increasing a component of
8 the second element of data.

1 40. A method for controlling data display operations,
2 the method comprising:
3 successively restoring elements of data to a screen of a
4 display unit; and
5 controlling respective time intervals to be successively
6 longer during which the elements of data are successively
7 restored to the screen.

1 41. A method for controlling data display operations,
2 the method comprising:
3 successively deleting first elements of data from a
4 screen of a display unit; and
5 varying, in accordance with successively deleting the
6 first elements of data, a density of a second element of data
7 remaining on the screen by varying a component of the second
8 element of data.

1 42. A method for controlling data display operations,
2 the method comprising:
3 successively deleting elements of data from a screen of a
4 display unit; and
5 controlling respective time intervals to be successively
6 varied during which the elements of data are successively
7 deleted.

1 43. A method for controlling data display operations,
2 the method comprising:
3 successively restoring first elements of data to a screen
4 of a display unit; and
5 varying, in accordance with successively restoring the
6 first elements of data, a density of a second element of data
7 previously restored to the screen by increasing a component of
8 the second element of data.

44. A method for
method comprising:
successively resto
ay unit, and
controlling respec
d during which t
ored to the screen.

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人口	115.0	115.5	116.0	116.5	117.0	117.5	118.0	118.5	119.0	119.5	120.0	120.5	121.0	121.5	122.0	122.5	123.0	123.5	124.0	124.5	125.0	125.5	126.0	126.5	127.0	127.5	128.0	128.5	129.0	129.5	130.0	130.5	131.0	131.5	132.0	132.5	133.0	133.5	134.0	134.5	135.0	135.5	136.0	136.5	137.0	137.5	138.0	138.5	139.0	139.5	140.0	140.5	141.0	141.5	142.0	142.5	143.0	143.5	144.0	144.5	145.0	145.5	146.0	146.5	147.0	147.5	148.0	148.5	149.0	149.5	150.0	150.5	151.0	151.5	152.0	152.5	153.0	153.5	154.0	154.5	155.0	155.5	156.0	156.5	157.0	157.5	158.0	158.5	159.0	159.5	160.0	160.5	161.0	161.5	162.0	162.5	163.0	163.5	164.0	164.5	165.0	165.5	166.0	166.5	167.0	167.5	168.0	168.5	169.0	169.5	170.0	170.5	171.0	171.5	172.0	172.5	173.0	173.5	174.0	174.5	175.0	175.5	176.0	176.5	177.0	177.5	178.0	178.5	179.0	179.5	180.0	180.5	181.0	181.5	182.0	182.5	183.0	183.5	184.0	184.5	185.0	185.5	186.0	186.5	187.0	187.5	188.0	188.5	189.0	189.5	190.0	190.5	191.0	191.5	192.0	192.5	193.0	193.5	194.0	194.5	195.0	195.5	196.0	196.5	197.0	197.5	198.0	198.5	199.0	199.5	200.0	200.5	201.0	201.5	202.0	202.5	203.0	203.5	204.0	204.5	205.0	205.5	206.0	206.5	207.0	207.5	208.0	208.5	209.0	209.5	210.0	210.5	211.0	211.5	212.0	212.5	213.0	213.5	214.0	214.5	215.0	215.5	216.0	216.5	217.0	217.5	218.0	218.5	219.0	219.5	220.0	220.5	221.0	221.5	222.0	222.5	223.0	223.5	224.0	224.5	225.0	225.5	226.0	226.5	227.0	227.5	228.0	228.5	229.0	229.5	230.0	230.5	231.0	231.5	232.0	232.5	233.0	233.5	234.0	234.5	235.0	235.5	236.0	236.5	237.0	237.5	238.0	238.5	239.0	239.5	240.0	240.5	241.0	241.5	242.0	242.5	243.0	243.5	244.0	244.5	245.0	245.5	246.0	246.5	247.0	247.5	248.0	248.5